SUPPLEMENT

OMMERCIAL GAZETTE:

FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

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GRATIS.

REVIEW OF BRITISH MINING,

RE QUARTER ENDING MARCH 31, 1856; WITH A BRIEF OUTLINE THE POSITION AND PROSPECTS OF SOME OF THE PRINCIPAL DIVI-D AND PROGRESSIVE MINES.

BY J. H. MURCHISON, ESQ., F.G.S., F.S.S.

hstanding the war, the great dearness of money, and the high of labour and the materials used in mining, it has already been that this department of national industry was more prosperous in han in any former year. The first quarter of 1856 has now gone dit is gratifying to find that so far the mining interest continues urishing condition, while there is no reason to believe that peace, ent of which has just been hailed with satisfaction by others, will neficial to the miner; for it is worthy of remark that copper grarose to 135*l*. per ton until the middle of April, 1853, when, on the rospect of war, it was lowered to 117*l*., or a reduction of 18*l*. per which it has since remained. But, before entering more fully into ustion, I would briefly refer to some of the more striking evidences sperity during the past three months.

following are the particulars of the total sales of copper ores in all during the quarter ending March 31, 1856, compared with the during the corresponding quarter of 1855. I have thought it right pt this comparison, because the first months of the year are always ost unfavourable for mining operations:—

	Tons.		Average produce		Amoun		C		Av				Ton	
31, 1856 31, 1855	53,934 45,849	***	6·202 6·379	***	£317,327 287,095			***	£5	17 5		***	3358 2933	
681	8,085	***	_	***	£30,232	14	6	***	-	_	-	***	424	18
440	-		.177		_				0	7	6		-	_

would appear, therefore, that while there is a considerable increase equantity of ore, the amount realised, and the quantity of fine copper, is a small decrease in the produce, and the average price per ton.

e following are the sales of British and Irish copper ores at Swanser ag the same periods:—

1856-Irish	1659	tons				€16,152	2	6	
1855-Ditto	1438	19				13,762			
1856-English	22	**				162			
1855-Ditto	37	**				267	5	0	

th regard to the returns of lead and tin ores for the quarter, it is able at present to give anything approaching a correct statement; may be remarked that both these metals have risen in price lately, be lead and tin mines are doing better than usual.

idends paid by British and Irish mines, in the quarter ending 31st

fsha	res. Mines.	Div. E	er	har	re.	Amor	int.	
120	Alfred Consols		5	0			0	0
000	Bedford United	. 20 0	5	0		1,000	0	0
200	Botallack	6	0	0	*********	1,000	0	0
240	Boscean	9	0	0	*********	720	0	0
100	Brynford Hall	. 9	0	0	*********	300	0	0
048	Carnyorth	. 0	3	0	********	307	0	0
256	Condurrow	. 6	0	0	*********	1,536	0	0
024	Devon Great Consols	18	0	0	*********		0	0
179	Dolcoath		0	0	*********	18,432 716	0	0
672	Ding Dong		10	0	*******	2,352	0	0
700	Exmouth and Adams	. 0	3	0	*********	855	0	0
400	Eyam		10	0	**********	700	0	0
128	East Pool	. 2	10	0	*********	320	0	0
494	Fowey Consols	. 3	0	0	*******		0	0
560	Foxdale	1	0	0	*********	1,482 2,560	-	0
000	Hingston Down	. 0	6	0	********		0	0
160	Levant	. 2	0	0	*******	1,800	0	0
20	Laxey	. 50	0	0	**********			
024	Mary Ann	. 30	10	0	*********	1,000	0	0
000	Mining Company of Ireland.	. 0	7	0	*********	1,536	0	0
600	North Basset	. 0			*********	7,000	0	0
100	Par Consols	. 0	14	0	**********	4,200	0	0
560				0	********	5,760	0	0
512	Rosewarne United	5	0		*********	2,800	0	0
196	South Wheal Frances	3	0	0	*******	2,048	0	0
000	Sortridge Console	20	0	0	********	9,920	0	0
256	Sortridge Consols	. 0	2	6	********	1,500	0	0
000	South Caradon		0	0	**********	4,096	0	0
280		0	5	0	*********	2,250	0	0
096	Spearne Moor	0	15	0	**********	210	0	0
000	Trewetha	0	3	0	**********	614	0	0
600	Tincroft	0	5	0	*********	1,500	0	0
000	Tamar Consols	0	2	6	*********	1,200	0	0
000	Vale of Towy	0	1	0	*********	1,000	0	0
400	West Basset	1	5	0	**********	7,500	0	0
024	West Seten	6	0	0	*********	2,400	0	0
	West Providence	0	15	0	**********	768	0	0
512	Wheal Basset	12	10	0	***********	6,400	0	0
256	Wheal Buller	40	0	0	**********	10,240	0	0
000	Wheal Fortescue	0	1	6	***********	375	0	0
148	Wheal Margaret	2	0	0	**********	898	0	0
80	Wheal Owles	4	0	0	***********	320	0	0
198	Wheal Seton	4	0	0	**********	792	0	0
096	Wheal Wrey	0	7	0	**********	1,434	0	0

£113,439 0 0 s list may be thus classified :-English mines . Welsh mines 1,300 0 7,000 0 0 3,500 0 0 Isle of Man mines £113,439 0 0

any tink, with the extension of trade in the East and elsewhere, ren-more active by the happy change in political affairs, that the in-nt items of the metals will be the only articles which will escape the tical effects of the progress of civilisation in the different parts of the , especially in the new fields lately opened to British commerce; at home there can be no reason for expecting that our requirements ot be fully maintained. At the same time, it is satisfactory to know even if an unexpected reduction in the prices of the metals takes

place, the altered position of the miner in other respects will enable him to meet it to a considerable extent without affecting his profits.

In labour, perhaps, no great difference can be expected. It was high before the war, and has been ever since, owing principally to the scarcity of men, from the extensive emigration of miners to Australia and America, But there will be a very material reduction in the prices of the immense quantities of various articles used in mines, such as candles, tallow, gunpowder, hemp, ropes, iron, timber, &c. In the Redruth district, for instance, before the war tallow was 56l. per ton, then 72l., and now already 54l. per ton; candles in a similar proportion; cordage was 42l. per ton, then 72l., and now already 54l.; powder, from 40l. went up to 57l., and is again falling; while the freights of American timber were raised by the war. In the Tavistock district, timber (dram) rose at the quays from 44s. to 52s. before the war, and 60s. to 70s. per load during the war; iron rose 20s. to 30s. per ton; coals advanced by the cargo about 2s. per ton; candles rose from 4s. 5d. to 8s. 6d., and have slready fallen again considerably; tallow in the same proportion; powder rose from 36l. to 60l., and is also falling again, &c.

While these facts are satisfactory, and should tend to allay the fears of those who have entertained apprehensions as to the future, it is to be hoped that there will be much caution observed with regard to new mines, for there are a number of sound and legitimate progressive ones now at work which it would be advantageous, in the first instance, to support and

that there will be much caution observed with regard to ness mines, for there are a number of sound and legitimate progressive ones now at work which it would be advantageous, in the first instance, to support and carry out with spirit, and which would, for some time to come, give bona fide employment to a great portion of such additional capital as may be devoted to the promotion of mining operations. Shares can also be purchased, on advantageous terms, in some undertakings, which are now on the point of turning the scale to make profits, with every probability of greatly increasing the sums invested, independent of the dividends to be expected.

I shall now proceed to give a brief outline of the position and prospects of some of the principal dividend and progressive mines.

DIVIDEND MINES.

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of some of the principal dividend and progressive mines.

DIVIDEND MINES.

Alfred Consols.—During the quarter, 789 tons of copper ore have been sold for 60661. 9s., exactly the same quantity having been sold in the corresponding quarter of 1855 for 70796. 8s. 6d. The mine is looking much the same as for some time past. The shares have fallen since the beginning of the year from 17l. to 14l. The dividend paid during the quarter has been 1280l., or 5s. per share, for two months' profit.

Bedden Untied.—The returns during the quarter, 576 tons of copper ore, realising 3303l. 9s. 6d., against 554 tons for 3935l. 10s. in corresponding period last year. Dividend of 1000l., or 5s. per share, in the past three months. The shares are about 9l. 10s.

Botallack.—This mine is not looking so well at present. In the quarter 191 tons of copper ore have been sold for 2577l. 15s., against 265 tons, for 4232l. 0s. 6d., in corresponding quarter last year. Considerable sales of tin were also made. The sum of 1000l. for two months' profits has been divided in the past three months, carrying forward a balance of 2044l. 18s. 8d., and the same dividend is expected in April. The tin lode at Wheal Cock has lately improved, and should it continue it is hoped that some good tribute ground will be laid open; but it can searcely be expected, from the present position of the mine generally, that the current dividends will be maintained. Changes of this nature, however, sometimes take place, and there are good grounds for anticipating that Botallack may in time resume her former favourable position. It would tend to give more confidence if a copy of the agents' report on the mine were always sent with the two-monthly accounts to the shareholders, which it appears has not hitherto been the custom. The shares have fallen to 160l. and 180l.

Devon Great Consols.—A very important discovery has just taken place here. At Wheal Emma, there is now a very fine course of ore, worth at least 100l. per fim., in the 63 west; there is a piece of whole grou

are in demand at 4000, 100, por base the beginning of the year.

Fower Consols.—The old mine is likely to last many years. Within the last month two new setts have been added on the north part of the hast month two new setts have been added on the north part of the last month two new setts have been added on the north part of the last month two new setts have been added on the north part of the last month two new setts have been added on the north part of the last many years. property, which are of great importance in future operations. In the past quarter 1509 tons of copper ore have been sold for 10,6581. 19s. 6d., against 1047 tons for 76051. 10s. 6d. in the corresponding period of 1855. A dividend of 14821., or 3l. per share, was declared in February, out of four months' profits, and dividends may be considered certain at the next two meetings, while it is probable that discoveries will in the meantime be made to enable them to be kept up. There are 494 shares, and the present price is only about 301.

made to enable them to be kept up. There are 494 shares, and the present price is only about 30'.

Hiscorron Down has somewhat improved; 1800'., or 6s. per share, has been divided in the past quarter.

North Basser continues to look well, with good reserves. In the past quarter 1416 tons of copper ore have been sold for 12,976'. 7s., or 9'. 3s. 3d., per ton, against 1034'. tons for 6513'. 19s., or 6'. 5s. 11d. per ton, in the corresponding quarter of 1855. The shares rose to 44'., but have fallen to about 38', and it must be borne in mind that the mine must divide double the amount paid last year, or (say) 42,000'. for the next six years, to pay 15 per cent. on 44'. per share. The two-monthly dividend in Feb. was 14s. per share (4200'.), and in a few months the dividends are expected to be increased.

Pan Consols has improved, particularly in the tin ground going west. In February, 5760'., or 18s. per share, was divided, carrying forward a balance of 5903'. 18s. A new tin lode has been cut, and the 70 west is worth 150'. per fm. The mine generally is in an excellent state, and the dividends likely to be maintained. The shares are about 19'.

worth 150%, per fm. The mine generally is in an excellent state, and the dividends likely to be maintained. The shares are about 19%.

Rosewanne United has fluctuated a good deal during the quarter. At the end of February, a very fine course of ore was discovered in the 22 west, and in a winze sinking from the 12; the lode was about 18 ft. wide, 7 ft. to 8 ft. of which was ore of excellent quality. During the 12 months, ending with March, 1856, the sum of 9984% was divided, besides paying for a 65-inch steam-engine 1200%, purchase of leasehold land 350%, and heavy surface works. In March, the dividend was 4% per share, from two months' profit: but, in a great measure owing to the present heavy costs in for a 66-inch steam-engine 12006, purchase of leasehold land 3500, and heavy surface works. In March, the dividend was 4l. per share, from two months' profit; but, in a great measure owing to the present heavy costs in erecting new machinery, and laying out new works in the western part of the sett, the dividends for a time will be less. In April and May they will probably be 2l. per share, and after that an increase may be expected. The rich bably be 2l, per share, and after that an increase may be expected. The rich shoots of ore discovered in the eastern part dip west, and the new engine-shaft is being sunk, so as to meet them, and thus save the long drivings west from the original, or eastern, engine-shaft. The 46 west is approaching the rich bunch of ore found above, and is already worth 15l. per fm. A few fathoms behind the 22 end, the lode in the stopes is worth 70l. to 80l. per fm. There are twenty-two men stoping in a good lode, and the tribute department is looking very well. There is every probability that the western part of the mine will prove by far the most productive, and

that the profits of the mine will yet be larger than they have been. About the beginning of February the shares were as high as 138% in Cornwall, but they have since fallen to about 105%, partly owing to the general flatness of the market, partly to the expected temporary diminution of the dividends, and partly to erroneous reports circulated respecting the position and prospects of the mine.

SOUTH TAMAR CONSOLS is reported to be looking very well, although the shares remain flat, at about 6% 10s. A dividend of 5s. per share (2250%) was paid in January, and the same will be paid in April.

SOUTHIDGE CONSOLS is not looking so well. The 50 fm. levels are as yet unproductive, while the 40 cast has improved, and is worth 5 tons of ore per fm. The first dividend of 2s. 64. per share (1500%) was declared in January, and it has been a subject of remark among practical men that the amount of profits has been so small, in proportion to the sales of ore made, the whole being now 2149 tons, for 20,384% 4s. 6d., while the fact of the ore being mostly of good produce, and also found so near the surface, should have enabled the returns to have been made with a larger proportion of profit than almost any other mine. Including the calls made, the whole outlay on this mine during the last two years has been about 24,000%, and certainly there is little advantage in finding rich deposits of ore, unless they can be sent to market with greater advantage than has been done in this case. As a contrast, allusion may be made to South Crinnis Mine, in Cornwall, where a similar discovery of ore took place, from which about 30,000% worth have been sold, and the amount of calls made have been only 2560%, while the profits divided have been 7680%. In one case the return is about 6½ per cent. on the outlay and returns, and in the other about 25 per cent.

SOUTH WHEAL FRANCES islooking very well, notwithstandingthe shares have fallen in price in the market. In the past quarter, 1502 tons of copper ore have been sold for 11,515. 7s., against

3201., they have risen again to 3451, at which they may be considered a good investment.

Tincorr is looking well. A dividend of 15001., or 5s. per share, was declared in February, carrying a balance of 57321 to next account.

West Caradon.—This mine is now recovering from the effects of the accident which took place last year, by which the levels were nearly filled with water, and the returns, of course, for a time, greatly diminished; while, on the other hand, the costs have been greatly increased, from the necessary outlay required to bring the mine again into proper working order. The following monthly sales of copper ore since July, 1855, will show how they have fallen and risen again:—

1855—1818.——1855—1818.——1856—18 200—1856—18 200—1856—18 200—1856—18 200—1856—18 200—1856—18 200—1856—18 200—1856—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200—18 200

1855—JulyTons	420	£3688		0
August	311	2420	14	6
September	352	3114	7	0
October	300	2565	2	0
November	250	2017	19	6
December	210	1713	15	0
1856-January	360	3121	6	0
February	376	3133	19	6
March	360	2652	8	6

PROGRESSIVE MINES.

Bonnopox Consols.—The prospects are much improved. From the new discovery on the caunter lode, in the 12 fm. level under adit, 40 fms, from surface, about 7 tons of high produce copper ore have been raised, and another cross-cut is now being driven through the lode, when it is introduced the driven the court with control of the court with the court of the court with the court of the court with the court of the court o intended to drive on the south, or most productive, part, with every prospect of leading to valuable results. The character of the ore and the strata fully justify this view. In a short time the east and west lode will be cut under the elvan, about 76 fms. from surface, which is looked forward to with much interest.

CALVADNACK MINE.—At the meeting, on March 26, there was a balance of 1614. 15s. 9d. in favour of the adventurers. The engine-shaft is sunk 8 ft. below the 50, and the lode is worth 16t. per fm. for tin. The 50 cast is worth 10*l.*, the 50 west 12*l.*, and the 40 east 9*l.* per fm. There are 400 fms. of tin ground explored, and the ground being explored monthly is 70 fms., equal to 9 tons of black tin. Three new wheels for stamping are about to be erected. There are 915 shares.

CARVATH UNITED is progressing most favourably. The tin lode is opening well, and the shaft is being rapidly sunk to the 30. There are 24 heads of stamps at constant work; and about 20 tons of good tin will be ready for sale in a week or two. The prospects of the copper lode are very go

CLIJAH AND WENTWORTH will probably make a good mine when open deeper; the district and the number of lodes render it a good speculation. The engine-shaft is now sunk to the 60 fm. level. The 20 east, on Julia lode, is worth 1 ton of copper ore; the 30 east, 1 ton; the 40 east, ½ ton;

the 50 east, 1 ton; 50 west, 1 ton; 50 west, on Whitford's lode, 11 ton, and the 50 east, worth 30% per fm. for tin. The sales of ore have off for some time, but it is probable they will be again increased. shares are about 16% each.

hares are about 16% each.

Collacombe continues to look very well, and appears likely to be soon a profitable concern. In the 62, east and west, where the lode has only been lately out, it is large and very promising, with some rich copper ore. In the rise in back of the 50 the lode is worth from 50t to 60t, per fm.;

In the rise in back of the 50 the lode is worth from 50% to 60% per fm.; the pitches in the back of this level are worth from 30% to 40% per fm.; and in the 26, at the western shaft, the pitch is worth from 15% to 20%. Per fathom. In the past quarter, 365 tons of copper ore have been sold for 2173% 5s., the produce of four months. The shares are about 60% each. Copper Hill.—At this mine they are driving the 50% 60, and 70 west, the two last-named ends being promising. From the position of the mine, and considering the returns from the same lode east, it is likely that the result of the operations will be successful.

East Wheal Basser.—The ground in the 60 cross-cut is improved, and it is thought they are near another lode. In the 60 east the lode is 2½ ft. wide, with a very good branch of tin, 3 to 4 in. wide. The shafts down to the 70 fm. level. The shares are about 50% to 55%, and are a very good speculation. The sett adjoins North Basset, and probably takes in a north lode or two of Wheal Basset.

East Buller.—At this mine they are driving the 20 and 40 cross-cuts

EAST BULLER.—At this mine they are driving the 20 and 40 cross-cuts

in search of lodes.

East Gunnis Lake and South Bedvord Consols continue to look

East Gunnis Lake and South Bedford Consols continue to look well. During the whole of 1855 there were 380 tons of copper ore sold for 1623t. 10s.; and in the first three months of 1856, 210 tons have been sold for 729t. 6s. The samplings are now to take place monthly, there being 59 tons for sale on April 17. The ore will also, probably, be of better produce as they get deeper, and a new level (the 60) will soon be in course of driving. The costs are about 375t. per month, so it will not require a large quantity of ore to make profits. The lease is about to be renewed by the Duchy. The shares are about 4t.

Grambler and St. Auben have much improved in the past quarter. In 1855, the average two-monthly sales of copper ore were only about 183t. each; in January, 1856, the two-monthly sale produced 400t. 12s. 6d.; and on April 3, 864t. 12s., while it is probable that the samplings will increase. At the meeting, in February, the accounts showed the costs for the four months, from Sept. to Dec., 1855, inclusive, to be 1222t. 6s. 9d., or an average of 305t. per month. The adit is 24 fms. deep, and in the 24 fm. level east, below the adit, the lode is worth 15t. per fm.; the 12 east, 30t. per fm.; and in the winze sinking below the 12, about 7 fms. before the 24 end, the lode is worth 30t. per fm. During the last three months the love will be cut in the 36 fm. level, and if it should prove as good as in the levels above, it will make the mine a most valuable one. It may also be mentioned that the adit level has been driven on a fine as good as in the levels above, it will make the mine a most valuable one. nay also be mentioned that the adit level has been driven on a fine gossan lode, which is an important feature in favour of the levels below proving productive. There are 243 shares, and the present price about 1121. 10s. to 1151. per share.

GREAT POLIGOOTH.—In consequence of the variation of the elvan course, this mine has not increased its returns as was expected, but the agents confidently anticipate that after a few fathoms further driving in the 116, rich ground will be cut, and when this is realised, a large extent of backs will gradually be opened out.

HOLMBUSH has much improved. The reserves are valued at 10,000%;

and as the intention is to keep up the tutwork with spirit, it is fair to expect that the mine will stand well in another year.

Lydford Consols.—The lode has been cut in the 25 fm. level, but owing to the late dry weather, there has been a scarcity of water to work the wheel, and little has yet been seen of the lode in that level. The mine has lately been thoroughly investigated by several good practical agents, who consider it is a valuable property, and that, if effectually carried out, it will be a profitable concern. Looking at the character and carried out, it will be a profitable concern. Looking at the character and productiveness of the lode in the 12 fm. level, it is reasonable to expect a considerable improvement in the 25, when driven some distance.

NORTH WHEAL ROBERT.—This mine continues to improve. In Feb., 1855, the two-monthly sale of ore was 72 tons for 443. 11s.; while, in February, 1856, the two-monthly sale is 135 tons for 1017. 3s. In March, 97 tons were sold for 747. 4s., for one month, while 101 tons are sampled for sale on April 17th. The samplings will continue monthly. The 52 has reached the ore ground, and has been worth full 2 tons of good ore per fathom for nearly the last two months, and continues equally proore per latinom for nearly the last two months, and continues equally productive. The other parts of the eastern mine still yield good returns. The 42 west is worth 3½ tons of good ore; the rise and stopes in the back of this level, 3 tons; the 30, on the south lode, 2 tons; the four stopes in the back of the 30, each worth 3 tons; and the 30, on middle lode, 1 ton per fm. The trial shaft is down 45 fms., where levels are about to be commenced on the lode, with every prospect of making valuable discoveries before long. The lode in the shaft is 5 feet wide, 1 foot of which is saving work with presence of cover improvement. work, with prospects of a great improvement. At the meeting on March 3, a call of 15s. per share was made, which may be confidently expected to be the last, as it will meet the cost to the end of April, taking credit for the ore only to the end of February. The price of the shares is about 35l. PRNALDARVA.—The adit is being driven at the rate of 10 fms. per month, and in about three months the lode is expected to be cut, when important results are confidently looked for.

Stlyrs Brown —At the meeting in February, the estimated belance

important results are confidently looked for.

Silver Brodk.—At the meeting in February, the estimated balance required for the following two months was 1031. 13s. 7d.; since which zinc ores have been sold to the amount of 4701, and lead ore sampled which will probably realise 1201 more. The shaft is down to the 55, and there is a prospect of the returns being increased.

South Carn Brea.—The engine-shaft is holed to the deep adit, 70 fms. from surface, and a cross-cut has been commenced south on the cross-course to cut the south lodes. They are also sinking the flat-rod shaft, in which the lode is large, with a leader of copper ore and gossan.

West Fower Consols.—The 80 fm. level, on Protection lode, has been driven 50 fms. through a good course of ore, and they are preparing to

West Fower Consols.—The 80 fm. level, on Frotection lode, has been driven 50 fms. through a good course of ore, and they are preparing to sink deeper. From the old lode a good deal of ore has been raised lately, and a pitch is let at 3s. in 1l. In the last three months, 279 tons of ore have been sold for 2811l. 2s. 6d., against 134 tons for 1498l. 15s. in the corresponding quarter of 1855. The costs have been heavy lately in the erection of a great deal of new machinery. There are 6000 shares, and the price is shout 5l.

WEST FRANCES. -No discovery has yet been made, and the shares have

llen to 24.
West Pan Consols.—The lode in the 45 west is improving. One of the Par Consols lodes has lately been cut at surface, which it is expected will be met with in about 8 fms. driving in the 45 cross-cut. The shaft is down 17 fms. below the 45, and at 20 fms. the lodes will again be cut

WEST ROSEWARNE -- A 50 in steam engine has lately been nurchased on advantageous terms, and is expected to be at work in June. This mine adjoins Rosewarne United, and on the same rich lode; and the fact that the late discovery there is in their extreme west workings, while all the the late discovery there is in their extreme west workings, while all the shoots of ore in that mine dip west, attaches great importance to the prospects of West Rosewarne, where the shaft is already sunk to 29 fathoms under the adit, so that as soon as the engine is at work, and the water drained, the underground operations can be carried on with vigour. A good deal of ore was raised from the old workings some years ago, when the standard was very low, so that it is probable it will not be long before the mine will appear in the ticketing list.

WHEAL CREBOR.—An important discovery has lately taken place in the 44 fm. level under adit, 98 fms. from surface, where the lode is stated to be worth 3 to 4 tons of good ore per fm., and likely to turn out a considerable quantity. The lode has also been cut in the 66 fm. level, where it is reported to be 6 ft. wide, and part of it saying work; in diving east in

be 6 ft. wide, and part of it saving work; in driving east in which is now being done, important discoveries may be ex-

this level, which is now being done, important discoveries may be expected. The prospects of the mine are certainly fully as good as they have been before, if not better. The unlimited water-power is a great advantage. There are 4096 shares, and they are in demand at about 20s.

WHEAL EDWARD is much improved. In February, 68 tons of copper ore were sold for 5151. 12s., and 114 tons are to be sold on April 17, which it is expected will realise about 1000l. The whole of the sales last year were 172 tons, for 1469l. 13s. 6d. The 54 castis worth 30l. per fm.; two stopes in the back, each 10l. per fm; and the 41 east, 13l. per fm. There are on the mine a 36-inch pumping engine, and a 22-inch crushing engine. on the mine a 36-inch pu

stopes in the back, each 10t, per im.; and the 4t east, 13t, per im. There are on the mine a 36-inch pumping engine, and a 22-inch crushing engine. There are 4096 shares, and the price is about 5t.

Wheal Esma.—In January, 16t tons were sold for 1214t. 15s., and 14t tons are to be sold on April 17. There are 4000 shares, and they are quoted at about 12t., or 48,000t. for the mine. Very favourable reports have been given by Mr. Jehu Hitchins, Capts. Samuel Seccombe, Charles Thomas, and others. Thomas, and others.

Wheal Russell.—The 62 fm. level has much improved lately, being worth 4 tons of ore per fm., and the prospects of the mine generally are considerably better. There are two important objects in view—viz., the extension of the 50 and 62 fm. levels eastward, on the south lode, into new ground, and the development of the great north lode in the 90. A few months will throw great light on these points.

Wheal Trefusis.—In the last few feet sinking the lode and strata have very much improved, the former being 2 ft. wide, with a leader of copper ore, 6 in. wide. The shaft is down 13 fms. below the 30, and in consequence of the above discovery it is to be sunk 2 fms. more before

copper ore, 6 in. wide. The shart is down to a line, below the 30, and me consequence of the above discovery it is to be sunk 2.fms, more before driving again. The 30 fm. level is driven east 26 fms, where the lode is composed of gossan and spar, and from its appearance it is probable there will be a good lode of copper ore under the gossan. There are 512 shares, and the price shoul 141.

and the price about 14/. 117, Bishopsgate-street Within, London, April 11.

ROSEWARNE DISTRICT.

In addition to the mines named in our last Supplement, situate within the limits represented in the plan of Rosswarne district, we may mention the following, which are now at work:-

ANGARRACK, formerly called Hayle Consols, in the lands of Richard Edmonds, Esq., at Angarrack, in the parish of Phillack. The operations are very limited, owing to want of energy or capital, or both. Some persons consider it deserving of a thorough trial.

WHEAL ANNIE, under the management of Capt. Joseph Vivian, presents indications of success. It is situate north of Rosewarne United, and west of East Rosewarne United.

sents indications of success. It is west of East Rosewarne United.

West of Last Rosewards of Red.
West Seton (very rich), Wheal Seton, North Roskeab, Dolcoath,
Wheal Harriett, Condurrow, South Condurrow (slightly worked),
Wheal Grenville, Bolenowe, Stray Park, Camborne Consols, Pen-DARVES AND ST. AUBYN CONSOLS, TREVOOLE, GERNICK, NORTH CRENVER and Soure Crenver, are also situate in the same district.

In our last, an error was committed in calling East Rosewarne (late Carnwynen) East Rosewarne United.

EAST ROSEWARNE UNITED is situate near Rosewarne United, and sur-rounded by other mines of a productive character. Some persons who are well acquainted with the location of the sett have expressed their surprise well acquainted with the location of the sett have expressed their surprise that it has been so long unwrought: one reason may be that no person till lately knew of the existence of silver ore in one of the lodes, which produces 40 ozs. of pure silver to the ton, as per several assays made by Mr. John Mitchell and others. The agents who have reported on it assert their confident belief that, with a small outlay, it will become a dividend-paying mine, and the opinion of those agents (Capts. Miners, Vivian, and others) is entitled to respect. The works will be conducted with strict regard to economy and efficiency, so that all the advantages derivable from the mine may be reaped as early as possible by the adventurers. The shares are 2000, at 11. each, paid up.

EAST ROSEWARNE UNITED. - Since the appearance of the prospectus, in our last Number, our desire to ascertain the conditions upon which shareholders are admissable into this co-partnership led us to make enquiries on the subject, and we are much satisfied with the answers which we have We find that the promoters charge nothing for the mines bereceived. We find that the promoters charge nothing for the min yond the actual expenses incurred in obtaining the sett, so that every holder will come in on the same terms as the promoters themselves. noticer will come in on the same terms as the promoters themselves. We consider this extremely liberal on their part, and cannot help thinking that, for a mine presenting such prospects of success, they ought to have something for their trouble in getting the thing affort. We commend their example to the imitation of all mining projectors, and recommend speculators to countenance conduct so rarely exhibited, but so much wished for, in the winter exemption. in the mining community.

REDUCTION OF IRON FROM SLAGS,-Professor Crace-Calvert, of Man-REDUCTION OF IRON SLAGS,—Professor Crace-Caivert, of Manchester, has patented a new process in the treatment of heating, puddling, and refinery slags and cinders from the iron of the blast and other furnaces; the object of the inventor being the production of a better quality of east and malleable iron, from iron slags or cinders, than is effected by the system at present in use. It is a well-known fact that these slags contain a large amount of siliceous matter, as well as sulphur, phosphorus, and arsenic, with other impurities, which very much injure the quality of the iron produced from them when smelted alone, and with the metal they come in contact with when reduced in combination with other invantance. in contact with when reduced in combination with other ironstone By the employment of quicklime, slaked lime, limestone, or magnesiar limestone, and the employment of heat, and after the union of such substances with the slags or cinders, they are smelted either in blast furnaces or such like receptacles now in common use, or in ordinary cupolas or other suitable furnaces, or in crucibles. After the balls or blooms are taken out of the puddling or other furnace containing the melted slags, the patentee introduces one-half their weight of quick lime, or two-thirds their weight of carbonate of lime, slaked lime, or magnesian limestone, and after the mixture has been well stirred the mass is removed to cool. Or, the slags having been allowed to cool, are again heated, when they are introduced with the above proportions of lime and magnesia into a heated puddling furnace, cupola, or crucible, and when melted and well mixed, also allowed claims the mixing of slags with line and magnesia, and then smelting with carbonaceous fuel in a blast-furnace or cupola, in order to obtain a better quality of iron than has been hitherto done by the present known processes. The patentee does not confine himself to any exact quantities, but

SEPARATING METALS FROM THEIR ORES .- Mr. Newton, of Chancer lane, has obtained a patent for a mechanical process for improvements in machinery for separating substances of different specific gravities, being a communication, and peculiarly relates to the separation of grains of gold, and other precious metals, from the earthy substances with which they may be combined, preparatory to and in connection with a crushing-mill, may be combined, preparatory to and in connection with a crushing-min, the separator acting as a hopper to the latter. The process is a modification of the old Chilian mill, but with peculiar additions and arrangements, likely to render it a very efficient machine. It consists of astrong cylindrical iron vessel, capable of holding a large body of water, and two heavy iron wheels running round it vertically for the purpose of grinding; it is supported on four strong legs, and surmounted by two pillars, which support the cross head and toothed gear for giving motion to the which support the cross head and toothed gear for giving motion to the grinders, which work entirely under water. Above the surface of the el, is a hopper, having at its centre a tube through which passes. At the bottom of the hopper is a round iron water, in this vessel, is a nopper, having at its centre at the united which the working shaft passes. At the bottom of the hopper is a round iron plate, having a number of teeth nearly touching the bottom of the hopper, and keyed to the shaft, that it may revolve with it. At the bottom of the shaft is fixed a revolving scraper, just fitting between the grinders, which not only keeps the centre of the mill clear, but conducts the earthy material of the leaves record forming the ters under the wheels. By the side of this large vessel, forming the grinder, is a semi-spherical iron vessel, or basin, supported by framework, at a convenient height for the overflow from the mill to pass into it. The bottom of this vessel is supplied with quicksilver, and in it is a vertical shaft, having two paddles, or agitators, the lower edges of which slightly dip into, and just skim over, the surface of the mercury. On commencing the operation of separating gold or other precious metals from the matrix, previously broken small enough to pass through the hopper, the apparatus is set in motion, and a stream of water allowed to pass through the hopper, filling the mill, and passing into the amaignmator. The earthy tus is set in motion, and a stream or water allowed to pass through the hopper, fillling the mill, and passing into the amaigamator. The earthy matters are then supplied gradually to the hopper, in which the grains of gold, &c., if any, will be retained, and cleaned by the action of the toothed plate, while the finer portions pass off into the amalgamator, where they are kept in agitation by the revolving paddles with the surface of the mercury. After leaving the amalgamator, the refuse earth, or tailings, pass off into a series of trap-boxes, where it may be subsequently examined, and its value ascertained. The amalgam is drawn off from the basin by a tap in the usual manner. There is also an arrangement for stopping the sup ply of water at the end of the day's proceedings, and drawing off the su rich residue which remains at the bottom of the mill; the plates in rich residue which remains at the bottom of the mill; the plates in the hoppers are raised, and the apparatus cleaned, by allowing all the remaining earthy matters to pass into the trap-boxes. The principles involved in this process are that grains of gold, silver, and other ductile metals, when ground with other hard substances, flatten under the mill, and the crushing surfaces are presented from consistent when the mill, and the crushing surfaces are prevented from coming close enough to crush the matrix to a very fine powder; but when these flattened particles are sepa-rated, the stoney portion may be converted into an impalpable powder It is to accomplish this effectually that large bodies of water are used, the avy metal particles fall to the bottom, and the refuse washed away by

the Mintro Journal of December 29. We take this opportunit contribution of authentic particulars respecting all mining und object is to publish correct information, and which we are at all obtain. When communications are intended for present or oction, they should be addressed to the office, 26, Ficet-street; but mation, for the Annual Review, can be sent direct to Mr. WATER CUELL), St. Michael's-alley, Cornhill. The Annual Review of Mining for 1855, by Mr. J. Y. Watson, F.G.S., the Mining Journal of December 29. We take this opportunity of

THE MINING JOURNAL

Railman and Commercial Gagette.

LONDON, APRIL 12, 1856.

The subject of Rating of Mines in Cornwall and Devon to the $p_{\tt OOT\, This}$ which has long formed a subject of such exciting interest, and on which a bill was introduced into Parliament during the last session, but subs quently withdrawn, is now becoming, if possible, of still greater important ance, from the fact of a series of resolutions, passed by the committee at Pointed at the Truro meeting, in December last, at a meeting held by the on March 11 last, having been privately circulated, together with a did lill for a local Act of Parliament to amend the law respecting the rating mine dues in the counties of Cornwall and Devon. The names of Ser RAWLINSON VYVYAN, Bart., Messrs. ROBERTS, DARKE, and DOWNINS were added to the committee, the names of the members of which will found in some subsequent remarks; and the resolutions were to the effect that the bill should be introduced as a local measure, confined to level and Cornwall; that the lord should be rated as the occupier of the deal whether reserved in money or kind; that should the members for the counties find that a local measure would not be likely to receive as anction of the Legislature, that they be authorised to introduce a gener measure, still retaining the principle of the rate on dues being paid the lord, whether reserved in money or kind; that in case it is found the such general measure is not likely to receive the sanction of the Legislature, that they be authorised to adopt the principle of rating the occupier of the mine, making the dues the basis of the amount of rating. The bill enacts that all persons entitled to any dues on mines other than the position of the relief of the posit nce, from the fact of a series of resolutions, passed by the com

The bill enacts that all persons entitled to any dues on mines other coal mines shall be rated to the assessments for the relief of the poor the parish in which such mines are situate, in the same manner as lords of such mines are now by law rateable for dues reserved in he when in any existing grant no agreement has been made as to the lity of the lord or occupier for the payment of any rates hereafter made, they shall, during the existence of such grants, be paid by the parties in equal moieties. In any such case it shall not be necessar insert the names of parties occupying the mines but sufficient to. insert the names of parties occupying the mines, but sufficient to describe merely as "occupiers," and which moneys may be levied by tress, in the same manner as other rates to the relief of the poor are rethem merely as "oc in the same manner as other rates to the rener via the same manner as other rates to the rener via the same manner as other rates to the rener via the same manner as other rates to the rener via the same manner as other rates to the rate via the same manner as other rates to the rate via the same manner as other rates to the rener via the same manner as other rates to the rener via the same manner as other rates to the rener via the same manner as other rates to the rener via the same manner as other rates to the rener via the same manner as other rates to the rate via the same manner as other rates to the rener via the same manner as other rates to the rate via the same manner as other rates to the rate via the same manner as other rates to the rate via the same manner as other rates of the same manner as othe So far we cannot but think that the proceedings and resolutions of the or mittee have been conceived in a liberal spirit. How far the above elar rendering the lord as well as the occupier liable for a moiety each of: rate which may be levied on dues under existing grants, may raise as hostile to the bill, time will show; but we should have been glad to been the proposed Act more of a prospective character, as more likely meet the views of all parties, as it is more than probable, if made ref spective, a serious opposition will be raised, under a conviction, part of the lessors, that the entire onus will be thrown upon them.

A few weeks back, our Cornwall correspondent referred to the p meeting held at Truro, on the subject of the Rating of Mines, a full port of which appeared in our Journal of Jan. 12. It will be remem that at that meeting Messrs. R. Davey, M. Williams, D. Boger, H. Andrew, J. Allen, T. Morris, E. C. Marriott, and J. Morcos, appointed a committee to confer on the subject with Government and appointed a committee to conter on the subject with doverments as a to the necessary measures to be adopted, resolute having been passed to the effect that, from the anomalies at presentering, it was highly expedient that the subject should be legislated on, the question simplified, and set at rest. The meeting being a private with the exception of the above facts very little is known as to what retook place; but our correspondent states that the committee have very tardy in their actions. As we have reason to believe that an took place; but our correspondent states that the committee have be very tardy in their actions. As we have reason to believe that an is being quietly made by the landed interest to concoct, and, if possis mature and introduce, a plan of rating inimical and unjust to the mis and that, as will be seen above, the committee have commenced set we think the time has now again arrived when some remarks on the sight will not be out of place. Although probably but little will be during the present parliamentary session, it behaves all interested to on the alert, and to be prepared, by unity and determined action, as coment to finetree the unweathy attempt to sheekled the mise. on the alert, and to be prepared, by unity and eletermined action, are moment to frustrate the unworthy attempt to shackle the mine after turer with new imposts, which, if successfully carried out, will prove such deterioration to the mining interest as cannot be survived, and with the agreed extent ruin this staple produce of the country.

If we take a dispassionate and reasonable view of the question at issue one to the conclusion that it is only simple justice that metallices as a representative of commercial wealth, should contribute their properties to the proposery taystion of the country as well as any other.

tion to the necessary taxation of the country as well as any othe cultural or manufacturing produce; but from the peculiarities, the culties, and the uncertainty of successful results which must ever culties, and the uncertainty of successful results which must ever a mining operations, the question naturally arises which party show justly called upon to pay the required tribute—the mine adventurer risks his capital, too often without obtaining a shadow of a return, landowner, who receives royalty, or dues, on every owt. of ore roften at great loss to the miner, without advancing a single shilling attended with any possible subsequent loss. We think there not be two opinions on the subject, although, doubtless, advocates be found who would produce arguments to show that the rate show cold by the miner of every text of over raised; but we forcess. paid by the miner on every ton of ore raised; but we fearlessly that if the mines of this country are to be rated to the relief of the it should be paid out of the dues on the ores, and payable by the owner who receives them. This is the general view taken by the C Members, and the majority of the meeting above alluded to; one difficient arising, as to how far the Legislature would feel disposed to interfere private arrangements under leases already granted, thus imposing a

private arrangements under leases already granted, thus imposing a on existing mine setts which were originally granted free of such in It was, therefore, the expressed opinion of Mr. Robartes, and others sent, that whatever measures may be adopted they should be prospected his petition to the House of Commons, praying that the report of use on the produce of copper, tin, and lead, in the county of Commight be rated to the poor and highway rates, until the middle of some time after the withdrawal of the bill, we constantly in the color of this Journal kept attention alive to the importance of the subject original articles and correspondence. By a perusal of these, the smay be well understood in all its numerous bearings, as well as the culties which must ever arise if the plan were adopted of taxing a miproportion to the dues paid on the produce. To rate mines thus, and it analogous to rent paid by the farmer, is simply an absurdity; the oanalogy. In the case of land, the profits bear a tolerably fair and tain proportion to the rent, but it is not so in mines; one may be mid a fair profit; while another may be yielding large returns, paying in dues, and making, from heavy costs, a dead loss. Whatever wou and making, from heavy costs, a dead loss. Whatever under such circumstances by local taxation on a mine, taken out of the pockets of the shareholders, who risk enough as it is by imposing too much, a dead lock would be put on mineral enterp and few would risk capital in such speculations. The only equi manner in which adventurers could be rated, and which even then a not exonerate the lords, would be on the dividends actually paid, in w case all cottages inhabited by the mining population must be exemplocal taxation. In bringing these observations to a close for the private cannot help expressing our regret that during the period of four m above mentioned, while we were exerting ourselves in what we co above mentioned, while we were exerting oursolves in what we consider our duty, and endeavouring to arouse from the strange apathy which prevailed on so important a subject, the interest evinced by adventurers self short of what might be expected. We again call upon the mining interest be up and doing, to watch with jealous scruple any attempts to carry solar measure, the effects of which we have endeavoured to describe, to as the standard of resistance, around which every miner ought to rally, si

by many to convery pr the miner i from his ca Club Fund 0,000, the should strice cluded the hild emplo riendly soc hin thirty death of each bations having his bed, tendance, a widow, and These liabi present tim Bank. Un much ca of contribu of which, i of 750,000

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petition Parliament against so impolitic, suicidal, and unjust an impo-

Is connection with the subject of the Rating of Mines, or of the lords less resulting from their produce, another question is now exciting much rest in Cornwall—the present mode of raising a doctor and club fund of the relief of the miners when incapacitated from labour from the effects for the relief of the miners when incapacitated from labour from the effects of socident, and the support of their distressed families. Among those who have directed their attention to the subject is the Rev. Thomas Pascis, who has addressed a communication to the lords and adventurers of the mines in Cornwall, in which he expresses a hope that some means may be discovered to assist the sick and disabled miner, his wife and childes, or his widow in case of death, without drawing so deeply, as appears by many to be considered necessary, if at all, on the poor rate. Mr. Pascis very properly calls attention to the fact that, from his youth upwards, chaminer in every district of the county has had compulsorily adducted. If very properly calls attention to the fact that, from his youth upwards, we miner in every district of the county has had compulsorily deducted on his earnings 1s. per month, to form a fund called the Doctor and by Fund; and assuming the number of miners in the county to be [000, the large sum of 24,000%, is annually collected for their use, and call strictly and sacredly be applied to their benefit. In this is not installed the 6d, per month from each boy, and 2d, or 3d, from each younger all employed. Mr. Pascor states that he has been a member of a fearly society, composed of labouring men, principally miners, more an thirty years; the contribution is 1s, 3d, per month, with 1s, on the pith of each member, and 6d, on that of a member's wife. Those contribution have enabled them to allow each free member when sick, not keepions have enabled them to allow each free member when sick, not keep bations have enabled them to allow each free thember when sick, not keep inghis bed, 4s, per week, and, if keeping his bed, 7s, per week, medical at padance, and the expenses of burial should death ensue, and 10t. to the and under these circumstances he has no claim on the mine club low, and under these circumstances he has no claim on the mine cutosee liabilities have all been discharged, and yet the society has at the
sent time a surplus of between 700. and 800. in the Penzance Savings'
ik. Under these circumstances, the question very naturally arises, if
much can be done by a friendly society, with about the same amount
phich, in the last thirty years, must have contributed not much short
750,000.? And has this fund, arising from subscriptions uniformly detions are been religiously devoted to the miners' benefit? We deted by the purser, been religiously devoted to the miners' benefit? We far not. And we think a plan should be adopted for establishing a County Fund, for the benefit of the sick and wounded, with relief to the miner's family. The county may be divided into districts; let the amount Coasty Fund, for the beneat of the sick and wounded, with refer to the miner's family. The county may be divided into districts; let the amount subscribed be obtained from the purser of each mine, every pay-day, and paid into a banker's, in the most central town of each district. Here would be the nucleus of legitimate and most extensive means of relief, and we believe, if once carried out with integrity and good spirit, we should hear but small complaint of miners or their families becoming chargeable to the poor rate.

In our last Journal, we incidentally noticed that an entertainment had een given to the numerous persons employed at Usworth Colliery, near Sunderland, by Messrs. Jonassonn and Elliott, the proprietors, with the object of marking their sense of the conduct of the men, in the conideration they had shown for their own and their employers' interests, by entering into an engagement for one year instead of from month to nth, as heretofore, and the subject involves a principle of so much immanage, that we offer no apology for again referring to it. The usua nation for many years has been for pitmen to engage themselves to the gent or superintendent of a colliery for one month certain, at the end of hish period they were free to leave, or to enter into a further monthly greement. These short engagements and quickly-returning periods of dependence were frequently productive of much inconvenience and mishelp and often, from an imaginary conviction that wages were not suffi-ently high, or other evils which they fancied they were labouring under, were taken advantage of to forward and carry out those strikes, the realts of which have repeatedly led to so much misery and destitution among he collery population, and of which they alone were the victims—the huges of mercenary agitators, who, too indolent to thrive by honest la-our, have endeavoured to live on the resources of the hard-working, but often weak-minded, pitman, who has been easily led to join the strike the imminent ruin of himself and family.

The men of Usworth Colliery have set an example to the mining popu

lation, and those who remember the disastrous consequences of the striker of 1824-28-32, and more particularly the memorably ruinous one of 1844 will join us heartily in the wish that it may be generally followed. The miners of Usworth have shown and proved that the schoolmaster has been abroad, that they have been taught the prudential maxim that a 12 months aployment at regular wages is better to be depended on, and productive more advantageous results, than short intervals of a month, in which numerous circumstances may arise to interrupt the regular now of labour, and fluctuations occur productive of much annoyance, suspense, and disappointment. They have shown also that they well understood how the calowners were situated, and this knowledge gives us reason to hope that in future those alterations to which the value of the mineral is subject in erous circumstances may arise to interrupt the regular flow of labour the market will be better understood, and they will then be conscious that if the production of coal does not remunerate the proprietors for their outlay, it is but just that the men should be paid in proportion for their labour, and bear their fair share in the burthens which will occasionally have to be borne in all commercial pursuits. On the other hand, in the advent of more prosperous trade, they will naturally expect an increase in their pay, a share in the masters' returning prosperity, which they will in their pay, a share in the masters' returning prosperity, which they will find responded to with willingness and alacrity. The recent conduct of the Usworth colliers goes far to establish the fact that the coalowners and miners are beginning better to understand each other than they ever did before, and there is little doubt that, through the improved means of education now being so generally introduced and provided for the rising generation, this highly gratifying state of things will not only continue. meration, this highly gratifying state of things will not only continue at gradually improve with social progress. They will learn and believe that the interests of employer and employed are identical, that any circumstances which may prove inimical to one will assuredly affect the other, and that by industry, frugality, and porseverance in the path of duty so clearly laid out for them, they may obtain present comforts, and lay the foundation for securing the necessities of life in later years.

ce, with all its beautiful attributes, once again dawns upon the face of Europe, to be followed, it is to be hoped, by a long duration of prosperity, plenty, and happiness. No longer is the booming of the cannot heard, but in its stead, from land to land and shore to shore, there seems to come one universal sound of joy in welcoming the glad tidings, echoing, ss it were, the holy words—"Blessed be the peacemakers."

In the composing era, now to succeed the turmoils of a war which has devastated countries and desolated homes, it becomes our duty to urge upon one and all the greatest caution in the conduct of their interests, as upon one and all the greatest caution in the conduct of their interests, as they will be more or less affected by the glorious reaction from a season of strife, and almost an interregnum as regards the state of general affairs. Trade has been depressed, commerce restricted, and mining, with other industrial branches, checked in their advancing progress. Speculation will be rife, and every advantage will be taken of the easiness of the money market, combined with the tendencies of the day, to place before the speculative public a series of adventures, embodying much which will result in evil and disaster. Far better would it be to fall on the field of battle, than to drag a lingering existence of destitution, produced by the loss of fortune, health, and credit, the consequences of entering into rash, unprincipled schemes, such as this country has before experienced in the amphicipled schemes, such as this country has before experienced in the iron, railway, grain, and gold mining manias of the past 10 years. Our object is not to alarm unnecessarily; but, looking back upon the fearful examples of the panics which have concluded the manias, to request the ulmost investigation on the part of the investors, before giving their support and many the head does undertaking. port and means to hazardous undertakings. Already numerous companies have been launched, many of which are quite untenable and unworthy, formed and brought forward to gull and ruin a confiding public. Let us, lormed and brought forward to gull and ruin a confiding public. Let us, then, pray of capitalists not to be blinded by a showy prospectus, promising dazzling and never-ending dividends, but let them use every opportunity of inquiry, and discriminate in the selection of their investment. We have before shown the eagerness and heedlessness with which banking institutions were run after: the furor has partly subsided, owing to the discomfiture consequent upon discount instead of premium upon the shares; but there are other sources from which evil may be educed, without proper prudence and foresight. We do not, nor have we ever,

totally exempted the interest represented by us, from the failing common to many spurious projects; but we do believe that a bestowal of care in the choice of a mine, its characteristics, and the end to be accomplished by the raising of metallic ores, to reward persevering enterprise, is not so liable to deceive and bamboozle as other interests, where the same extent of supervision does not exist.

For instance, a mining company, conducted on a legitimate footing, possessed of limited liability, added to the Cost-Book System, offers immense resources for the detection of tricksters; whether you take the bimense resources for the detection of trickstors; whether you take the bimonthly meeting, which enables you at pleasure to stop your operations, dismiss your agents, and effectually annihilate your liability; or the extreme amount of watchfulness identical to, and part and parcel of, the constitution, whereby you are privileged daily to inspect your reports and accounts, and ascertain your financial position. It is irrelevant to the point for adventurers to answer—We do not use this privilege; suffice it to say, you command it, and if you neglect it, the blame of the matter rests deservedly upon your own heads.

Insurance is a division of investment which will be lead held and the same of the matter than the same of the same of the matter than the same of the same

nce it to say, you command it, and if you negicet it, its biame of the matter rests deservedly upon your own heads.

Insurance is a division of investment which will be laid hold of to defraud, under specious designs, persons of their savings; and already is this branch overstocked with companies, highly respectable in the main, and well conducted, offering profitable sources of wealth, but, in dissecting, many will be found wanting in the necessary elements of prosperity and security, and it is most desirable not to add to a class of investments at present everywhered, and whose newers are apply sufficient for the present everywhered, and whose newers are apply sufficient for the prepresent overburthened, and whose powers are amply sufficient for the protection of not only the insured, but of the whole of the uninsured property of his country, though it reach the amazing sum of two-thirds of the whole value of property. It would be well, indeed, could this enormous perty of this country, though it is and whole value of property. It would be well, indeed, could this enormous amount of property be placed under the protecting arms of the insurance companies extant here, without recourse being had to foreign aid for the needful security and reimbursement of losses sustained by fire; but so long as the Government of Great Britain exacts the heavy duty of 3s. per contact this good result will never be accomplished. The conservative cent., this good result will never be accomplished. The conservative principle thus involved is bad; and we trust the day is not very far distant when such an injurious tax will be abolished, in order that all may equally participate in the advantages derived from such a small employ

ent of their substance. It was anticipated that the establishment of agencies here for the French companies would have had the effect of inducing the Government to have foregone or modified this impost, and rendered English societies equally as attractive as the French to the custodians of property. But the very contrary is the case, and to nullify the vain exertions of the offices of our august

trary is the case, and to nullify the vain exertions of the offices of our august Ally, the Government have resolved, under heavy penalties, of subjecting property lying in this country, insured in any other land, to the same duty as if the risk were protected here. This may be just and proper, but the course of reducing the duty would have been most satisfactory, and in the end the best plan for increasing the revenue.

Before leaving the subject, we would direct attention to the many facilities given by the Accidental Insurance Companies established here, for covering the risks to which persons occupied in mining are exposed; and we understand that mining agents, captains, and men, are now commonly insured for a mere nominal sum, comparatively speaking, which small premium largely recompenses the insured for any injury unfortunately sustained whilst performing their duties. We would ask the co-operation of tained whilst performing their duties. We would ask the co-operation of mining managers to impress this important matter upon the minds of those they employ. Some mines have availed of this benevolent mode of apthey employ. Some mines have availed of this benevolent mode of a preciating their *employés'* services, which will, doubtless, meet with proper return of gratitude. "Go thou and do likewise."

We have from time to time endeavoured to impress our readers with the great and increasing value of our mineral industry, and laboured to show them, that when mining is ably and honestly pursued it affords a large rate of interest upon the amount of capital invested. Sometime ago, Mr. Robert Hunt, of the Museum of Practical Geology, read a paper before the members of the Statistical Society, which entered into a brief analysis of the profits obtained from working a series of mines. These mines are situated in every part of Great Britain, and comprise copper, tin, lead, and iron. The capital varied with each individual mine; some had proved largely profitable with a little outlay, whilst others had been entirely unremunerative for a very large expenditure; but the result of the whole was highly encouraging to the mining capitalist, and a com-plete refutation to such sentiments as we hear sometimes expressed—viz. that mining will not pay, and that it is a delusion and a snare.

nat mining will not pay, and that it is a delusion and a snare.

The disappointments which often occur in mining chiefly arise from
nanner in which it is undertaken and conducted; and when this is fairly considered, it can scarcely be a matter of wonder why our minin industry is in such general discredit.

Now that peace is again established, we anticipate the advent of numerous mining schemes, with prospectuses speciously drawn, calculations of profits cunningly made, and, in fact, every desirable feature set forth but the defects and contingencies inherent to the scheme itself. We caution our readers to beware of such gilded baits; there are practical men enough who would long ago have secured such ready "prizes," were they not to be too dearly bought.

not to be too dearly bought.

The most essential point in mining to command the best chance of success, is to select bona fide mineral properties, presenting the necessary indications and features, and to observe that they be sufficiently well placed to admit of being worked without incurring an extraordinary expenditure for dead work; then to proceed to develop them judiciously and perseveringly, until the object of the trials is effected. In carrying out these operations, the character of the management should be strictly attended to; for we venture to assert that all the money recklessly lost in the operative part of mining is chargeable to the direction alone.

There are few, we believe, who are acquainted with the technical conduct of mines, and who possess a nice appreciation of statistical details. A good management will aim to secure economy of money, labour, and time; a sound constitution for the undertaking; strict accuracy and clearness in the accounts; periodical examination and settlement of such accounts; no arrears of costs, and cash payments for supplies. Accurate

counts; no arrears of costs, and cash payments for supplies. Accurate comparative tables should also be prepared, for judging of the present and past expenses of permanent operations, correct plotting of the subterranean works, and the establishment of such a check system as shall include the smallest limit of error.

the smallest limit of error.

Reporting on mines is a matter of grave responsibility, for upon it rests the judicious or injudicious outlay of capital. The laws, or principles, governing the formation of mineral deposits are but vaguely apprehended, and facts relative thereto have hitherto been so loosely recorded as to present a greater amount of contradiction and error than of harmony and truth. Hence it follows that the reputation of a mining district is much expended to the experies of results and its features liable to high exposed to the caprice of peculiar dogmas, and its features liable to high colouring from the imagination of the reporter. We would, therefore, urge our readers to approve of no representations

of mineral properties, unless made by men of sound experience, possessed of a great range of practice and observation, and having sufficient strength of mind to form a solid opinion, as well as a high character, affording a

guarantee for the truth of their statements.

We unhesitatingly assert that British capital may be applied to mining with the fair chance of realising remunerative profits, if the proper means be employed. Money, time, skill, patience, and Judgment are required, and a persistent course in those who have to supply these requisites. Irresoleaning to the mercurial temper of the public, although it may, for the

leaning to the mercurial temper of the public, although it may, for the moment, stimulate, yet in the majority of cases it must prove fatal to the good fortune and existence of an adventure.

It is the habit of many to denounce mining as a delusion and a snare, and of others to represent it as a source of immeasurable wealth. It is not consistently either the one or the other, but an industry which will remunerate handsomely, if prosecuted with a full amount of intelligence and caution, or reduce rapidly to poverty and ruin those who rush into it without discrimination, wisdom, or experience. Ever since mining has had a distinctive value in this metropolis, it has been represented only by a very limited number of houses of acknowledged integrity and eminence. But we are glad to find that another househas been established by Messra.

J. Arthur Phillips and John Darlington (and whose repeated com-J. ARTHUR PHILLIPS and JOHN DARLINGTON (and whose repeated com-J. ARTHUR PHILLIPS and JOHN DARLINGTON (and whose repeated communications to our Journal we have pleasure in now acknowledging), for the management of mines, metallurgic works, &c. These gentlemen are possessed of a very large amount of practical experience, acquired in the establishment of Messrs. John Taylon and Sons, and elsewhere, and we doubt not that they will honourably exert themselves to extend not only the science, but also the practice of mining. After the delinquencies of so many mere "adventurers" in the mining profession, we feel a pecu-

liar satisfaction in introducing to the notice of capitalists gentlemen who possess a sound reputation, and who will be found second to none in their ability to execute that which they will undertake. We wish them, and their friends, a mutual and lasting success.

COAL MINING IN FRANCE. - The obstacles which have long prevented the profitable working of the mines in the Toulouse and Pyrenean districts are now likely to be, at least in a great measure, removed by the establishment of a company for exploring the Carmeaux Coal Mines. The company is constituted provisionally as a societie en commendate, but the ne-cessary powers have been taken for immediately converting it into a societie anonyme. The mine grant, which extends over 20,000 acres, and for up-wards of a century has been in possession of the Solages family, who are also proprietors of iron-works, forests, and landed property valued at up-wards of 50,000L, is included in the transfer to the present company; and from the fact that the Government engineers' reports, on the 900 acres which have been partially explored compute the violate 25,000,000 tons which have been partially explored, compute the yield at 25,000,000 tons, there can be little doubt that the produce will be abundant for years to come. Operations have, hitherto, only been conducted on the old system, which will admit of some improvements, yet the yield per annum has been which will admit of some improvements, yet the yield per annum has been trebled in less than seven years, and now reaches 120,000 tons. A concession of the railway from Carmeaux to Alby has been already obtained, and the company intend applying for another concession to extend the line to Lexos and Toulouse, thus connecting the Grand Central and Midi Railways, and affording every facility for the transit of the produce of the collieries to every part of France. At Toulouse, the Carmeaux coals will have no competition to fear, as the nearest coal mines are the Aubin, which are 80 miles further from Toulouse. The mines, notwithstanding the imperfect communication which now exists, have supplied the Orleans Company for the last two years with coke for the Bordeaux and Tours line, and there is no doubt the Bordeaux and Cette, Grand Central, Orleans, and projected Pyrenean companies will, on account of the price and quantifications. and there is no doubt the Bordeaux and Cette, Grand Central, Orleans, and projected Pyrenean companies will, on account of the price and quality of the coals, avail themselves of the produce of these collieries. The present contracts with the Orleans Company, and negociations opened with other companies, will ensure, when the railway to Toulouse is completed, a sale of at least 300,000 tons annually, upon which the nett profits cannot be computed at less than 56,000%, exclusive of revenue from the Carmeaux and Alby Railway. The lines proposed to be constructed by the company will not only enjoy a large mineral traffic, but will complete a direct communication from Paris via Toulouse to Saragossa, Madrid, and the Mediterranean. The terms upon which the present company have secured the property are considered advantageous, and the chances of success are stated to be much above the average of similar undertakings.

New Construction of the Cornish Pumping Engine. —In the mining districts of Cornwall, where coal as a fuel for the steam-engine has to be brought from a distance, and forms a very considerable item of cost, great attention has been paid to the economy of the pumping engine, and it has, consequently, for many years been considered the most eligible machine known for raising water from great depths. The Cornish mine owners have lost no opportunity of affording to the engineer every facility for improvements in engines and boilers, and, at the same time. inducement to those in charge of their management to promote their eco-nomical working. The encouragements offered by rewards and premiums, has given to the Cornish engine its high character for economy in the conmas given to the cornish engine its high character for economy in the consumption of coal; and yet there are one or two evils connected with its operations which, up to the present time, have never been surmounted, and continually involve great expense. When water has to be raised from great depths by steam-power, the best method known is to use the Cornish engine worked expansively. This raises the pump rods and plungers, the weight of which, as they descend, force the water up to the surface, or the next level. For effecting this with a powerful engine, a strong wall has to be constructed for supporting the beam; this is restrong wall has to be constructed for supporting the beam; this is re-quired to be a mass of solid stone work of considerable height, to resist the shocks to which it is subjected by the sudden descent of the load upon the shocks to which it is subjected by the sudden descent of the load upon the spring beam, and which are at times so great in a large engine as to shake the masonry to its foundations. Mr. W. Fairbairn, of Manchester, has recently introduced a new engine for pumping purposes, which, from an entirely novel form of construction of some of the arrangements, thoroughly obviates this objection, the expense of high buildings is avoided, and massive masonry rendered unnecessary. In place of the single working beam above the cylinder, there are two placed below, one on each side the engine, resting on a platform level with the ground, and in some instances below the mouth of the pit. In case the engine should miss a stroke through an accident in the pit, the shock is received upon a massive oak transverse spring beam, which passes under the cylinder, and rests upon the foundations of the engine-house on each side. A corresponding spring beam is fixed in the pit, to receive the fall of the pump rods, whenever they happen to pass beyond the limits of the stroke in their descent. This modification in the arrangement has the advantage of making the foundations sustain the weight and shocks of the engine direct, and causes a great savcation in the arrangement has the advantage of making the foundations sustain the weight and shocks of the engine direct, and causes a great saving in the original cost. The principle of the engine itself presents no material difference from those of ordinary construction, and the arrangement is compact, simple, and effective; it is worked by double beat valves, and is so arranged as to cut off the steam at any part of the stroke. The pumps and pitwork have been arranged with a view to saving room, and at the same time affording facility for repairs, and convenient access to the valves and buckets of each of the sets into which the pumps are divided. The entire space occupied by the six sets of plunger-lifts and one bucket The entire space occupied by the six sets of plunger-lifts and one pump is only about one-fifth the area of the shaft, which is 12 pump is only about one-fifth the area of the shart, which is 12 reet in diameter, and this not only contains the pumps to the depth of 1500 feet, but has also space for the ascent and descent of two sets of boxes, each containing eight cwts. The engine under notice was constructed for the Dukinfield Colliery, belonging to Mr. F. P. D. Astley; it is single-acting, high-pressure, and condensing, of 160-horse effective power. The lower seam of coal, when reached, will be 2100 feet from surface. A number of other engines, on the same plan, are now at work, and continue to give complete satisfaction by their steady, convenient and economical working. omplete satisfaction by their steady, convenient, and economical working

CLAYTON'S PATENT BRICK MACHINE,—We have been much gratified by CLAYTON'S PATENT BRICK MACHINE.—We have been much gratified by an inspection of this important machine, which has been in operation, worked by steam-power, during the past week, at the manufactory, Atlas Works, Upper Park-place, Dorset-square, and fairly may we entitle it the most successful in all parts and results of any that yet has been accomplished. Our readers will remember our having noticed this machine at its first introduction, since which Mr. Clayton has devoted continual attention to perfect the mechanical details, and accomplish the production of quantity with still greater accuracy and facility than he had hitherto done; and it is to the extraordinary improvements thus effected in this machine that we now desire to call the especial attention of those interested in the manufacture of bricks. The most effectual and simple manner of explaining the change and improvements we think will be by comparing the present with the previous mechanical arrangements and results.—1. The machinery giving motion to the pugging and delivery means is now distinct, though as hitherto the operation is simultaneous, and effected by the one machine, which admits of any desired speed being given to either portion of the machinery; and, consequently, the quantity of bricks that may be produced per day (by the change of the speed) is ad libitum.—2. The delivery is compulsory, and positive to the extent of from 20,000 to 30,000 bricks per day (according to their size), and the result of quantity is not diminished by the clay being used stiff, or with less moisture at one time than another. This is a very important point realised, as, under the old system. the quantity was variable in proportion to the stiffness of the clay vatem. the cauntity was variable in proportion to the stiffness of the clay better as the content of the cauntity was variable in proportion to the stiffness of the clay of the clay being used stiff, or with less moisture at one time than another. This is a ver an anothe employed; and which, therefore, now admits of the clay being used with less moisture, consequently the quality of the bricks is much better, and available for stacking in walls direct; and, therefore, much less time is required to dry them.—3. The streams of clay are stationary while being cut into the desired size of bricks, as the delivery is arranged to be continuously alternate from each end of the machine. This has wholly overcome the alternate from each end of the machine. This has wholly overcome the objection made by many persons to the increasing delivery, and cutting the clay while in motion, and renders quite unnecessary the use of the complication of self-acting cutting apparatus (employed in some machines to overcome this objection).—4. The gearing is arranged for fixing on the ground, instead of being above, which has rendered the machine independent of fixings to a building These excellent mechanical arrangements, in addition to his previous clever invention of the "rotary orifice" die, has, in our opinion, realised all that can practically or reasonably be desired; for we witnessed the accomplishment of the large quantity mentioned, of an excellent quality of bricks, with strength and simplicity of machinery, combined with facilty and economy of manufacture, that have so long been the objects to be obtained in one machine. The peculiar arrangement of the present improved machine is the forming of a chamber

within the cylinder of the machine, and suitable machinery adapted thereto, to discharge the clay alternately through the dies at each end, which gives ample time for cutting the streams of clay while in a state of rest, and for the delivery of the bricks. The machine we saw in operation, requiring a 4-horse power steam-eagine, was making six strokes per minute, delivering eight bricks at each stroke, which gives 48 bricks per minute, or at the rate of 28,800 bricks for 10 hours' working: the cost of the machine, with its gearing complete, is 1351. Mr. Clayton pointed out to us a smaller machine, at the cost of 1002, adapted for working by one horse. In addition to the numerous prizes received by Mr. Clayton for the great superiority of his brick and tile-making machines, the gold medal of honour was awarded to him at the Paris Exhibition; and if any evidence were required to prove that these awards were well-merited, it is to be found in the numerous testimonials in the possession of the patentee, which we have seen, received from men of business and of the patentee, which we have seen, received from men of business and practical experience at home and abroad, who have tried the capabilities

THE GREAT CARADON EAST CONSOLS COPPER AND SILVER-LEAD MINING COMPANY, ST. IVE, CORNWALL.

In 15,000 shares of £1 each.—Deposit 10s, per share.
On the "Cost-Book System."
Managen—Capt. William Burgan.

Manager—Capt. William Burgan.

A company is forming to work this sett, which has been obtained on favourable terms, and is situate east a very short distance from the well-known Caradon Mines, and on the same lodes, which is considered one of the best mineral districts in Cornwall. There are several good east and west Caradon lodes opened in this extensive sett, all favourable for large deposits of rich copper ore.

The property is surrounded by good dividend-paying mines; and there are several rich silver-lead lodes intersecting the sett.

This sett has been carefully examined by the best miners of the day, who consider it one of the most promising mining adventures in Cornwall.

Applications for shares, and all particulars, may be addressed to Thos. Lee. Esq., solicitor, 26, Moorgate-street, London; or to Capt. W.E. EURGAN, 60, Graechurchstreet, where plans and reports of the mine may be examined. A full prospectus will abortly be issued.

TREBURGETT CROWAN CONSOLIDATED MINING COMPANY (LIMITED).

SITUATE IN THE PARISH OF CROWAN, THE BEST MINING DISTRICT IN CORNWALL.

Capital £25,000, in 2500 shares of £10 each.—Deposit £6 5s. per share.

The old shares of £1 each in the Treburgett Consols Mine will be received in exchange, and in payment of the deposit of £6 5s. per share.

OFFICES,—9, AUSTINFRIARS.

Prospectuses of this company will shortly be issued, and the company provisionally registered, according to the Act which limits liability to shareholders.

LIMITED LIABILITY.

THE BALLYSHANNON FLOUR MILL AND MERCHANTS'
TRADING COMPANY.
Capital, £25,000, in 1000 shares of £25 each.

Capital, £23,000, in 1000 shares of £25 each.

Under the conditions of the "Limited Liability Act," with provisional registration.

This company is established to supply a known want in the town and neighbour-hood of Ballyshannon—namely, a manufactory for the production of pure wheaten flour, and other necessary products.

The country surrounding Ballyshannon has been long celebrated for its agricultural retrility, more particularly in producing wheat and other ecreals; yet, until now, it has been prevented from having a mill for grinding these cereals, as the only water-rights for flour mills were ceded to a company several miles from Ballyshannon, with the exception of that of the Ballyshannon Distillery Company. The company now formed have purchased the rights, interests, and property of the late Ballyshannon Distillery Company, which property is now vested in a few respectable gentlemen, who thus form the nucleus of the company, and who shall, on the completion of the Share List, transfer and make over to the company their rights and interests, retaining, however, 120 shares, or a £3000 interest in the company.

The managers and directors of the company shall be selected from merchants and gentlemen belonging to Ballyshannon, Silgo, and their vicinity, of such known and well-established respectability and commercial knowledge as will protect the company from all risk of mismanagement or want of caution and economy, and secure for it that confidence so necessary to the success of any mercanile undertaking.

The company, in its formation and construction, avails itself of the Limited Liability Act, which presents such peculiarly favourable conditions for the formation of this and kindred undertakings, one of the most important conditions of said Act being to limit the responsibility to the amount invested, excepting the official managers, who remain under responsibility to the amount invested, excepting the official managers, who remain under responsibility to the basent and property and have a subject and th

this purpose at a weekly tent has solve a season than the chase money.

The property has a street frontage of about 140 yards in length, in one of the best streets, which may be rented off for buildings, shops, and houses, at a yearly income equal to the interest on the cost of the whole property, and that without at all interfering with the warehouse or mill property. The quay frontage is over 200 yards, at which ships of any size can discharge and load, completely water-borne and affoat, at all times of the tide. Its admirable situation above and below the justly-celebrated salmon leap, or falls of Ballyshannon, is the surprise and admiration of all who have seen the preparty.

at all times of the time. As animalous and a surprise and admiration of all who have seen the property.

It will be within the direction of the company whether an ale and porter brewery may not be combined with the flour mill. The facilities for this undertaking are—that there is now, in perfect working order, a splendid mashing keive, several vats, and about 200 casks, or spirit puncheons. It may be within the scope and interest of the company to invest a portion of their capital in the purchase of a suitable steam-ship, to open up the trade of the port with England, Sociiand, and the neighbouring Irish ports.

It may further become advantageous to the company to take an interest in the now projected short line of railway, only three miles in length, from Bailyshannon to Beleek, which, when formed, will connect Ballyshannon with all the borders of Lough Erne, including Enniskillen and Belturebet, and with the more important towns of Londonderry, Beifast, Dundalk, and Dublin—in fact, with the whole expisem of railway and canal communication of Ireland.

It is not intended for the present to require, in the way of calls, more than 50 per cent, of the whole capital stated above, the payment of which, as at present arranged, will be as follows—namely, it per cent. in cash on the allotment of shares, 20 per cent, within three months from same time, and another 20 per cent, in its months; the remainder of the capital to be retained by the shareholders until due notice be given by the official directorate of the company when it may be required, and for what purpose.

what purpose.

It may not be amiss to remark upon the important fact that few, if any, of the legitimate mercantile business undertakings of a similar character to this one which has been formed in Ireland of late years, but have succeeded to the utmost wishes of their projectors, and there is a very confident hope that this company will be amongst the most favoured.

their projectors, and there is a very confident hope that this company will be amongst the most favoured.

The feeling in Ballyshannon and its neighbourhood, when it became known that the Ballyshannon distillery had passed into other hands, and that it was intended to form this company, was one of unmitigated delight and satisfaction, which augurs well for the undertaking.

A list of the directors, local managers, solicitors, and bankers, will be published and communicated by post in a few days. Meantime, application for shares and every other information in connection with the company, can be had on application to the secretary pro ten.

4, Ea gle-chambers, Fenwick-street, Liverpool, March 27, 1856.

FRANCE FIRE INSURANCE COMPANY 6, RUE MENARD, PARIS.—Established 1837.

6, RUE MENARD, PARIS.—Established 1837.
Capital 10,000,000 fr. £200,000).
Amount of property insured in 1854, £114,861,590 sterling.
Premiums received, £114,997 sterling.
This company grants policies on most advantageous terms. Common risks at 2s. per cent. per annum. without further charge, instead of 4s. 6d., usual cost of the same insurance with British offices.
Proposals to be transmitted through the company's correspondent in London, at his offices, 35, New Bridge-street, Blackfriars.
N.B. One year's premium allowed on seven years' insurance.

Price Sixpence.

Price Sixpence.

O RSE-POWER OF CORNISH STEAM-ENGINES.

A TABLE compiled with the object of furnishing an approximate value of the power in horses rendered by Cornish Pumping Engines, having cylinders from 15 to 100 in. diameter. The elements employed for the calculations are those most usual with Cornish engineers; and the effective horse-power per stroke is given, that the enquirer may ascertain the total value of horse-power resulting from working any given number of strokes per minute. By John Darlington.

Published at the Mining Journal office, 20, Fleet-street, London; and to be had of all booksellers or newamen.

The second series of the second series of the advantage of having the series and series and series of the series of the series series and series of the series series and series of the series series

THE MINERS' ELECTRO-CHEMICAL REDUCTION FOR THE REDUCTION AND SEPARATION OF METALS FROM THEIR ORES.
By Her Majesty's Royal Letters Patent.
On the "Coor-moon System."
Capital £30,000, in 10,000 shares of £3 each.—Deposit £1 per share.

Capital £30,000, in 10,000 shares of £3 each.—Deposit £1 per share,

COMMITTER OF MANAGEMENT.

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JAMES COOK, Esq., Bow Churchyard.

GERARD DE WITTE, Esq., Stifford Lodge, Essex.

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WESTON PARRY, Esq., New London-street.

J. W. PERKINS, Esq., Poplar-terrace, Poplar—Patenter and Chemical Manager.

Boiletron—Thomas Lee, Esq., 26, Moorgate-street.

Bankres—The Bank of London, Threadneedle-street.

MANAGER—John Hamilton Clement, Esq., Gloucester-terrace, Kensington.

TEMPORARY OFFICES,—4, UNION COURT, OLD BROAD STREET, LONDONThis company proposes to work Wagstaffe and Perkins' patent for extracting and

TEMPORARY OFFICES,—4, UNION COURT, OLD BROAD STREET, LONDONThis company proposes to work Wagstaffe and Perkins' patent for extracting and
separating the various metals from ores by chemical agency.

The company's process gives the metals separately at a small cost; while the sulphur, arsenic, and other valuable properties are preserved for commercial purposes.

With a small outlay of capital for the erection of model works, say £5000, for illustration and reducing English and foreign ores at a royalty per ton, a large income
will be produced. For example, offers, after testing the process, have been made
from foreign mines, to consign 1000 tons of copper ore annually, and to pay £5 per
ton for reduction, which, after deducting (say) £1000 for expenses, would leave £4000
profit to the company, increasing the value of the metal; also, giving the other properties to the consignce, and about 1000 tons of extra sulphuric acid. Thus giving
the shareholders 30 per cent. on their capital, independent of the main and vast revenue which will accrue, without outlay, by granting licenses to mining companies,
for reducing ores at their mines.

A portion of the capital is already subscribed for, and applications for shares must
be accompanied with the bankers' receipt for the deposit of 10s, per share, and may
be addressed to the solicitor or manager, from whom prospectuses may be obtained.

[The detailed prospectus appeared in the Mining Journal of March 29 and April 5.]

GELONG AND MELBOURNE RAILWAY COMPANY
Incorporated by an Act of the Victoria Legislature, 8th February, 1853.
Capital 8350,000, in 17,500 shares of £20 each.
Bearing a minimum interest of 5 per cent. per annum,
Guaranteed by the Colonial Government for 21 years, and payable half-yearly,
viz, on the 20th April and 20th October, in the Colony and in London.

DIRECTORS.—ELECTED BY THE SHAREHOLDERS.
CHARLES NUTTALL THORNE, Esq., J.P.—PRESIDENT.
WILLIAM G. M'KELLAR, Eq., J.P.
CHARLES IBBOTSON, Esq., J.P.
JAMES B. HUTTON, Esq.

AMES A. HUTTON, ESQ.

APPOINTED BY THE COLONIAL GOVERNMENT.

CHARLES EDWARD STRUTT, Esq., J.P., Immigration Agent.

GEORGE F. BELCHER, Esq., Sub-Treasurer.

MANAGER—S. J. Cooke, Esq., late Treasurer to the Colonial Government,

and a Director of the Company.

AGENTS—Messrs. Larnach and Walker, 37, Cannon-street.

BANERIS—London Joint-Stock Bank; and Bank of New South Wales.

LONDON OFFICE,—36, CANNON STREET.

LONDON OFFICE,—36, CANNON STREET.

The fifth half-yearly report of the directors, made on the lat of January last, and unanimously adopted by the shareholders in the colony, has just been received, by the Red Jacket.

Great progress has been made with the works, and all the arrangements at the terminus for the supply of water and fuel. Platforms and offices for the goods and passenger traffic were initiated.

The first shipments of locomotives and carriage stock had strived, and were being fitted together for use, a short section of the line having been determined upon toopen almost immediately.

The last call upon colonial allotted shares has now been made, and that portion of the capital will have been paid up probably by the end of last month (March).

The directors adher to their original estimate of £35,000,0 which will cover the entire first-cost of the works and plant required for opening the traffic throughout the line. The president had again expressed his conviction, which was alike shared by directors and the colonial shareholders generally, that the line would yield a fair working dividend of 20 to 25 per cent; nor is it unreasonable to anticipate, from the steady increase of population and growing development of this wealthy and prosperous colony, that shareholders will reap even greater advantages than this large dividend.

The residue of the shares reserved for allotment in this country (being very few in The residue of the shares reserved for allotment in this country (being very few in The residue of the shares reserved for allotment in this country (being very few in the country the property of the shares reserved for allotment in this country (being very few in the country the property for the country the property for the country that the country that the country the country for the country for

dend.

be residue of the shares reserved for allotment in this country (being very few in the r) are now offered, and for which immediate application should be made certificates contain the authorised Government guarantee of 5 per cent., and they

The certificates contain the authorized core thinks of the bear interest from the date of payment.

Copies of the half-yearly report, dated 1st January, 1856, above referred to, for distribution in this country, will be forwarded to the respective shareholders immediately after the arrival of the next mail ship, by which they were to be despatched from the colors.

after the arrival of the season the colony.

The fullest information may be obtained by intending shareholders on application at the London Agency Office of the Company.

Geelong and Melbourne Railway Agency Office.

26, Cannon-street, London, April 10, 1856.

FORM OF APPLICATION FOR SHARES.

To Messrs, Larnach and Walker, 37, Cannon-street, London,

THE BRITISH WAGON COMPANY (LIMITED).

Provisionally Registered.

Capital £100,000, in 10,000 shares of £10 each.—Deposit on registration £2 per share.

PROVISIONAL DIRECTORS.

SAMUEL BARKER, £8q., Mexborough House, near Rotherham.

JOHN W. DAY, £8q., Felaw House, Durham.

JOHN BEATSON, £8q., Rotherham.

JOHN D. BECKITT, £8q., Elmfield House, Swinton, Rotherham.

HENRY WRIGHT, £8q., Saltey, Birmingham.

JOHN JOHNSON, £8q., Wath-upon-Dearne, near Rotherham.

(With power to add to their number.)

BANKERS—The Sheffield and Rotherham Banking Company.

JOINT SOLICITORS—Messer. Nicholson and Lingard, Wath, near Rotherham;

Messers. Colmore and Beale, Eirmingham.

This company is formed for the purpose of remedying the inconvenience to coal

Leaving the nett earning of each wagon, per annum

Leaving a nett return of 10 per cent. . £ 6 0 Or taking the amount of capital of the company, which would build £100,020 0

Rent of 1667 wagons, at £12 per annum

Deduct 10 per cent. per annum for upholding£10,002 0

Deduct for costs of management per annum, say 500 0 0 0= 10,502 0 (Leaving a nett profit of 91/2 per cent. .. £ 9,502 0

To the Directors of the British Wagon Company

TO MABINE ENGINEERS, SCREW SHIP COMPANIES, AND MACHIN

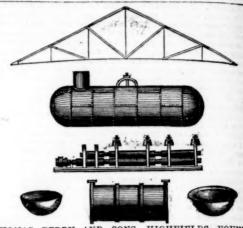
THE NEW PATENT MULTIPLE ROTATIVE GEARING
This justly admired invention contrasts with the ordinary toothed steries.



dmired invention contrasts with the ordinary toothed starts, and possesses the pre-eminent advantage of the property of the pr

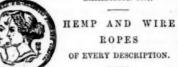
required, and is peculiarly applicable is seriew propulsion.

The proorietors of the patent are present to GRANT DISTRICT and OTHER IDENTIFY THE CENSES for the manufacture of this result the adaptation of the invention to screw steam-ressels, or other machinery application to their agent, No. 3, Hanover Chambers, Buckingham-street, Adely where any further particulars may be obtained, and models and teatimonials impose. The invention was honourably mentioned by the International Jury at the Free Exhibition of 1855; and has been favourably noticed in the Artisan of June and Identify the Company of the



THOMAS PERRY AND SONS, HIGHFIELDS FOUNDRY
BILSTON, MANUFACTURERS of CHILLED and GRAIN ROLLS, for itse
works, copper and zinc mills; and every description of FORGE MACHINERS
HRON ROOPS, STEAM-ENGINES, and STEAM-ENGINES, TAKE
BRIDGES, SUGAR PANS, GAS and WATER PIPES, &c. STEAM CYLINDES
cast and bored up to 9 ft, diameter. CASTINGS made up to 25 tons weight,
PLANING and TURNING done to order.

EXHIBITION 1851.



JOSEPH CRAWHALL AND SONS, ST. ANN'S HEMP AND WIRE BOPE WORKS, NEWCASTLE-ON-TYNE

212° MILNERS' HOLDFAST AND FIRE-RESISTING SAFE MILERS HOLDFAST AND FIRE-RESISTANG SAFE
(non-conducting and vapourising), with all their improvements, und
their Quadruple Patents of 1840-51-54 and 1855, including their GUNPOWIDE
PROOF SOLID LOCK AND DODG (without which no safe is secure). III
STRONGEST, BEST, AND CHEAPEST SAFEGUARDS EXTANT.
MILNERS' PHENIX (212') SAFE WORKS, LIVERPOOL, the most compict
and extensive in the world. Show Rooms, 6 and 8, Lord-street, Liverpool. Londo
Depot, 47A, Moorgate-street, City. Circulars free by post.

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d not affected by the copper water in mines. break. Prices from 15s. per 100 yards.

PATENT ASPHALTED ROOFING FELTS, 1d. per foot. DRY HAIR BOILER FELTS, to SAVE COAL. PATENT BOILER COMPOUND, for bad water. FAIRBANK'S WEIGHING MACHINES, of all sizes, GALVANISED IRON ROOFING AND SPOUTING. MILNER'S FIRE-PROOF SAFES.

OST IMPORTANT TO COLLIERY OWNERS AND COLLIERY MANAGERS.—HENRY J. MORTON AND CO., GALVAN, ISED IRONWORKS, No. 2. BASINGHALL BUILDINGS, LEEDS, beg to at attention to their 1MPROVED SIGNAL BELL, especially prepared to meet the requirements of the new Act for the Inspectice of Coal Mines. It has met with the decided approval of many large colliery owners as managers. SIMPLE, EPPROCEEN, and CHEAP, Price 22 to 22 10s. each.

BYRAM'S PATENT ANEMOMETER, for testing the ventilation.

STEAM PRESSURE GAUGES, very strong and accurate, £2 each.

For further information, apply to
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rmation, apply to H. J. MORTON AND CO., 2, Basinghall-buildings, Leeds.

TAIRBANK'S IMPROVED PATENT WEIGHING MACHINES for the use of IRONWORKS, COLLIERIES, RAILWAYS, WAREHOUSES STORES, &c. The most ACCURATE MACHINES in use, and the cheapest.

MACHINES of all sizes, from 1 ewt. to 30 tons, for RAILWAY WAGONS, CARN OT WAGONS.—For prices and all ether information, apply to HERRY J. MORTON ESC.

Co., Galvanised Ironworks, 2, Businghall-buildings, Leeds.

Asphalted Roofing Felts, Boiler Felts, Galvanised Iron, &e., in Stock.

(HEAP, LIGHT, AND DURABLE ROOFING, ONE PENNI PER FOOT.—HENRY J. MORTON AND CO., 2, BASINGHALL BULLD INGS, LEEDS. PATENT ASPHALTED ROOFING FELTS, for roofing sheds, or tractors' cottages, ore-dressing sheds, brick and tile sheds, and all agricultural proses. One penny per square foot. The cheapest roofing manufactured. Stocks in London, Leeds, and Bristol. DRY HAIR BOILER FELTS, for saving fall. H. J. MORTON AND CO., 2, Basinghall-buildings, Leeds.

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[April 13, 1356]